

# ULTRA-ZONE™

Forced Air Zone Controls

## SUBMITTAL SHEET

### Model APD Current Sensing Switch

#### APPLICATIONS

Monitor on/off status of blower motor to:

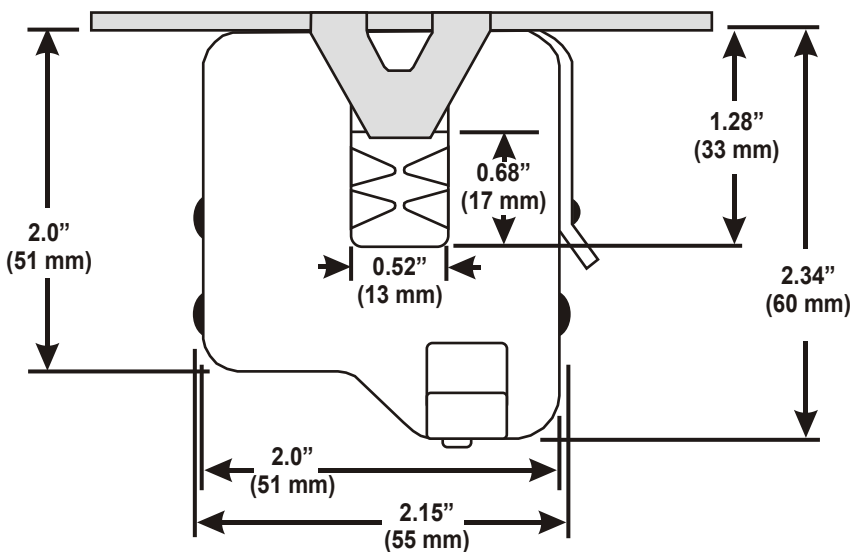
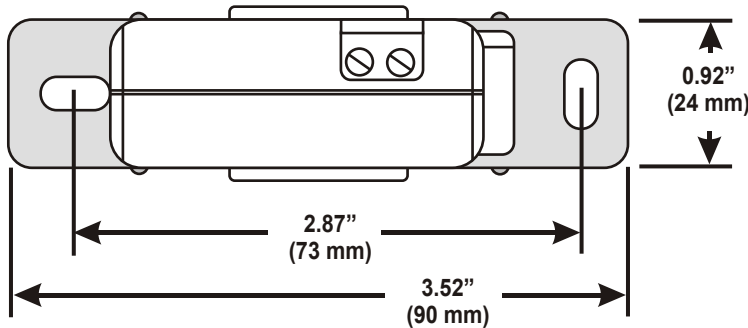
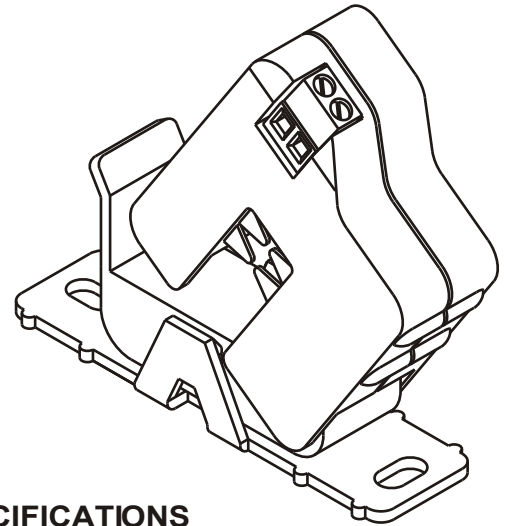
- Provide fan proving for S2000 / S2020 Steam Humidifier.
- Operate Spring type Damper for Fresh Air.

Also:

- Monitor on/off status of various electrical loads.
- Monitor direct drive units, exhaust fans and other fixed loads.

#### FEATURES

- Split core for easy installation. No need to rewire High-Voltage.
- Mounting bracket provides installation flexibility.
- Low 0.15 Amp Trip Point.
- 100% solid-state, no moving parts to fail.



#### SPECIFICATIONS

CORE: Split Type  
 AMPERAGE RANGE: 0.15 - 200A @ 5°F - 140°F  
 OUTPUT TYPE: N.O., Solid State  
 OUTPUT RANGE: 1.0A Max. @ 30V AC/DC  
 HUMIDITY RANGE: 0-95% NON-CONDENSING



- ***This product is not intended for life or safety applications. This product is not intended for installation in hazardous or classified locations.***
- ***Installing sensors in an energized motor control center or on any energized conductor can be hazardous.***
- ***Read instructions thoroughly prior to installation.***
- ***Disconnect and lock-out all power sources during installation and service. Applications shown are suggested means of installing sensors, but it is the responsibility of the installer to ensure that the installation is in compliance with all national and local codes. Installation should be attempted only by individuals familiar with codes, standards, and proper safety procedures for high-voltage installations.***

Excellence Without Compromise



CONTROLS, LLC.

385 Hwy. 33 Englishtown, NJ 07726  
 Ph: 800-446-3110 - Fx: 732-446-5362

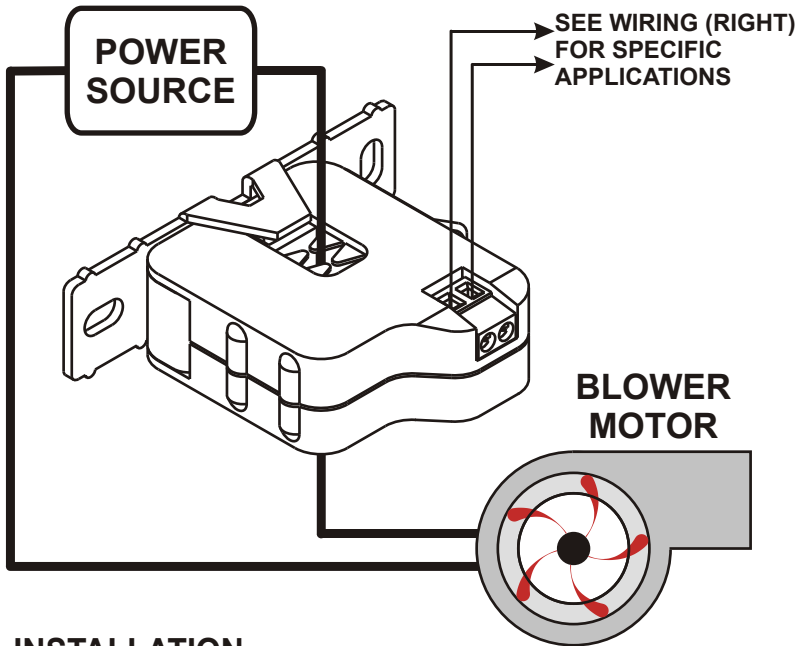
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## SUBMITTAL SHEET

### Model APD Current Sensing Switch



#### INSTALLATION

1. Ensure power conductor to be monitored is disconnected and locked out from the power source!
2. Install the removable mounting bracket to the back of the electrical enclosure, if desired.
3. Snap the split core around the conductor to be monitored and close until the core snaps shut.

#### NOTES:

To monitor current under .15 Amp see installation note.

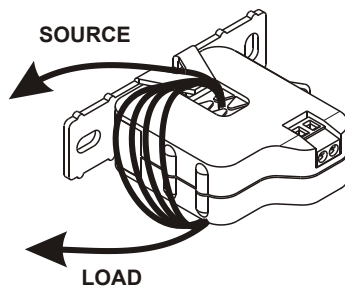
4. Connect current switch output to switched load. (See diagrams to the right).
5. Snap the APD back into the mounting bracket or allow the APD to hang on the conductor.

**Note:** Contacts are solid state and work just like dry contacts. When the switch is closed 1 Ohm is present. When the switch is open more than 1 Megohm is present.

6. Reconnect power.

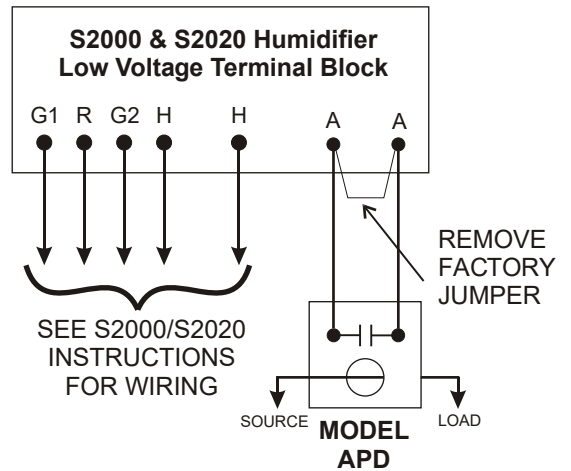
#### INSTALLATION NOTES

**For currents less than .15 Amp:**  
To provide adequate current, wrap the conductor through the center hole and around the sensor body to produce multiple passes and increase measured current.  
*Measured current = Actual current times the number of passes.*

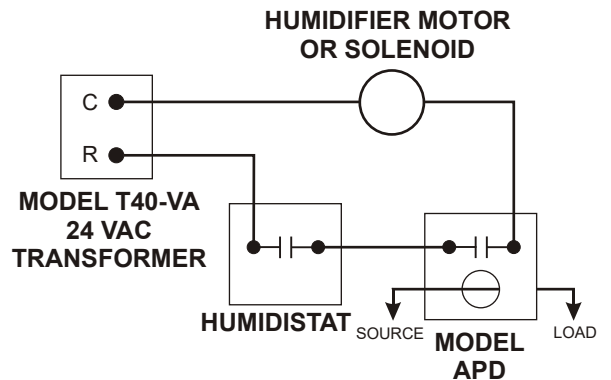


#### WIRING

##### FOR AIR PROVING ON S2000/S2020

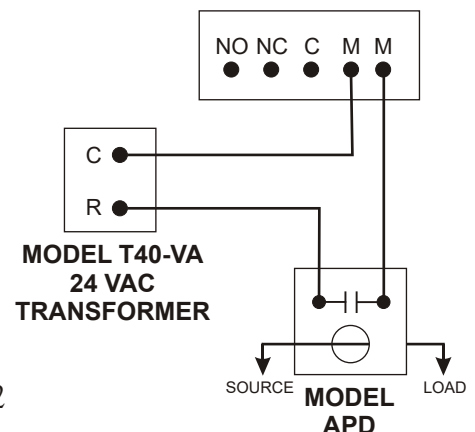


##### FOR AIR PROVING ON BY-PASS OR FLOW-THRU HUMIDIFIER



##### FOR FRESH AIR WITH ESR DAMPER

##### MODEL ND-ESR / URD-ESR POWER OPEN / SPRING CLOSE



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